

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-11 (canceled)

12. (presently amended) An isolated protein, wherein said protein is a ~~KChAP~~ potassium channel associated protein or a derivative thereof, wherein said protein comprises an amino acid sequence ~~having at least 85% identity with the amino acid sequence shown in Fig. 2, as set forth in SEQ ID NO: 2 or the amino acid sequence shown in Fig. 3, SEQ ID NO: 4, or the amino acid sequence set forth in SEQ ID NO: 6.~~

13. (previously presented) The isolated protein of claim 12, wherein said protein binds to Kv α subunits Kv2.1, Kv2.2, Kv1.3, and Kv4.3.

14. (presently amended) ~~The~~ An isolated protein of claim 12 that binds to Kv α subunits Kv2.1, Kv2.2, Kv1.3, and Kv4.3, wherein said protein comprises an amino acid sequence having at least 95% identity with the amino acid sequence shown set forth in ~~in Fig. 2, SEQ ID NO: 2 or the amino acid sequence shown in Fig. 3, SEQ ID NO: 4, or the amino acid sequence set forth in SEQ ID NO: 6.~~

15. (presently amended) An isolated peptide comprising the Kv α /Kv β binding domain of KChAP a potassium channel associated protein, wherein said peptide comprises the amino acid sequence of SEQ ID NO: 5, SEQ ID NO: 7, or SEQ ID NO: 10.

16. canceled

21. (presently amended) The isolated protein of claim ~~12~~ 14, wherein said protein comprises a Kv α /Kv β binding domain having the amino acid sequence set forth in SEQ ID NO: 5, SEQ ID NO: 7, or SEQ ID NO: 10.

22. (previously presented) The isolated protein of claim 12, wherein said protein binds to Kv β 1.2.
23. (presently amended) The isolated protein of claim ~~12-14~~, wherein said protein binds to ~~Kv α subunits Kv2.1, Kv2.2, Kv1.3, and Kv4.3 and to the Kv β subunit Kv β 1.2.~~
24. canceled
25. (presently amended) The isolated peptide of claim ~~16~~ 15, wherein said peptide binds to Kv α subunits Kv2.1, Kv2.2, Kv1.3, and Kv4.3.
26. (presently amended) The isolated peptide of claim ~~16~~ 15, wherein said peptide binds to Kv β 1.2.
27. (presently amended) The isolated peptide of claim ~~16~~ 15, wherein said peptide binds to Kv α subunits Kv2.1, Kv2.2, Kv1.3, and to the Kv β subunit Kv β 1.2.
28. Canceled.
29. Canceled
30. (new) The isolated protein of claim 12, wherein said protein comprises SEQ ID NO: 2.
31. (new) The isolated protein of claim 12, wherein said protein comprises SEQ ID NO: 4.
32. (new) The isolated protein of claim 12, wherein said protein comprises SEQ ID NO: 6.
33. (new) The isolated protein of claim 14, wherein said protein comprises SEQ ID NO:5.
34. (new) The isolated protein of claim 14, wherein said protein comprises SEQ ID NO: 7.
35. (new) The isolated protein of claim 14, wherein said protein comprises SEQ ID NO:10.
36. (new) The isolated peptide of claim 15, wherein said peptide comprises SEQ ID NO: 5.
37. (new) The isolated peptide of claim 15, wherein said peptide comprises SEQ ID NO: 7.
38. (new) The isolated peptide of claim 15, wherein said peptide comprises SEQ ID NO: 10.